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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/633,919 08/04/2003		08/04/2003	Gerald Scott	117.0001-00000	4941		
22882	7590	06/26/2006		EXAMINER			
MARTIN &		-	SHEEHAN, JOHN P				
1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632				ART UNIT	PAPER NUMBER		
	•			1742			
				DATE MAILED: 06/26/2006	DATE MAILED: 06/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)	
	10/633,919	)	SCOTT ET AL.		
Office Action Summa	ary	Examiner		Art Unit	
		John P. Sh		1742	
The MAILING DATE of this co Period for Reply	mmunication app	ears on the	cover sheet with the	correspondence ac	idress
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM  - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of 1 If NO period for reply is specified above, the ma-Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	THE MAILING DA provisions of 37 CFR 1.13 this communication. ximum statutory period v I for reply will, by statute, months after the mailing	ATE OF TH! 36(a). In no ever will apply and will , cause the applic	S COMMUNICATIO t, however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).	
Status					
1) Responsive to communication	n(s) filed on <u>16 A</u> j	pril 2006.			
2a)☐ This action is <b>FINAL</b> .	<i>,</i> —	action is no			
3)☐ Since this application is in cor		•	•		e merits is
closed in accordance with the	practice under E	x parte Qua	yle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims					
4) ☐ Claim(s) 6-22 is/are pending i 4a) Of the above claim(s) 17-2 5) ☐ Claim(s) is/are allowed 6) ☐ Claim(s) 6-16,21 and 22 is/are 7) ☐ Claim(s) is/are objected 8) ☐ Claim(s) are subject to	<u>20</u> is/are withdraw l. e rejected. d to.	vn from cons			
Application Papers					
9) The specification is objected to 10) The drawing(s) filed on Applicant may not request that ar Replacement drawing sheet(s) in 11) The oath or declaration is objected to	is/are: a) acce ny objection to the o cluding the correct	epted or b) drawing(s) be ion is required	held in abeyance. Se	e 37 CFR 1.85(a). ojected to. See 37 Cl	
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a a) All b) Some * c) Non 1. Certified copies of the p 2. Certified copies of the p 3. Copies of the certified copies of the p application from the Inte	e of: priority documents priority documents copies of the prior priority dureau	s have been s have been ity documer u (PCT Rule	received. received in Applicat its have been receive 17.2(a)).	ion No ed in this National	Stage
Attachment(s)  1) \( \int \) Notice of References Cited (PTO-892)			4)	(PTO-413)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Regard Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date Nov. 4, 2003.</li> </ol>			Paper No(s)/Mail D    Notice of Informal F	ate	O-152)

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of Group II claims 6 to 16 in the reply filed on April 18, 2006 is acknowledged. It is noted that in the response submitted April 18, 2006, applicants added new claims 21 and 22, which are dependent on elected claim 16. Accordingly claims 6 to 16, 21 and 22 are subject to examination.

## Claim Interpretation

2. Claim 1 recites, "a precipitation-hardenable alloy core" (claim 6, line 3). The word "hardenable" has been interpreted to mean capable of being hardened but not necessarily in the hardened condition. In view this interpretation of the word, "hardenable", the phrase, "a precipitation-hardenable alloy core" is considered to encompass an alloy core that is made of an alloy that is capable of being precipitation hardened but is not in the precipitation hardened state and an alloy core that is made of an alloy that is in fact in the precipitation hardened state.

## Claim Rejections - 35 USC § 112, 1st Paragraph

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 6 to 16, 21 and 22 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a core rod made of the precipitation hardenable alloy composition recited in claim 7, does not reasonably provide enablement for all precipitation hardenable alloys. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

- I. As presently drafted, claims 6 and 8 to 16, 21 and 22 encompass the use of a core rod made from any "precipitation hardenable" alloy. For example, claim 6 reads on any alloy that can be caused to have precipitates of a constituent form from a supersaturated solution, such as, aluminum alloys, copper base alloys, magnesium alloys, refractory metal base alloys, cobalt base alloys, nickel base alloys, copper base alloys, that is, every alloy in class 148, subclasses 405 to 419, of USPTO classification schedule. However, the specification is not enabling for such breadth but rather, teaches the use of only the alloy composition recited in claim 7 for the purpose of the instant invention. Applicants are advised that his rejection can be overcome by incorporating the limitations of claim 7 into claim 6.
- II. In like manner, claims 6 to 15 encompasses casting any and all metal alloys. The specification is not enabling for such breadth in that applicants have disclosed the use of the instant invention with but a single alloy type, beryllium-copper alloys as recited in claims 16, 21 and 22. Applicants are

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advised that his rejection can be overcome by incorporating the limitations of claim 16 into claim 6.

## Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 6 to 16, 21 and 22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - I. In claim 6, the last two lines, the meaning of the phrase, "a uniform sidewall thickness in a range of +/- 0.060 inches" is not clear. For example, does this language mean;
    - (1) that the side walls have a thickness of 0.06 inches +/-, that is, a thickness of about 0.06 inches; or
    - (2) that the sidewall has deviation in the thickness of plus or minus 0.06 inches?

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Sheehan whose telephone number is (571) 272-1249. The examiner can normally be reached on T-F (6:45-4:30) Second Monday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1040.

John P. Sheehan Primary Examiner Art Unit 1742

jps